

ABSTRACT OF THE DISCLOSURE

Received signal inputted from an antenna 1 is fed via a received signal mixer 2 and an A/D converter 3 to a demodulator 4. The demodulator 4 is operated according to software down-loaded in a software memory 5 from a program memory 6. A demodulator output digital signal is fed to a base-band signal processor 8 for signal processing, and then fed out through a man-machine interface 9 to the outside. On the transmission side, a signal to be transmitted is inputted to a modulator 10 though a route converse to that of the received signal. The modulator output is fed to a D/A converter 11 for conversion to an analog signal, which is in turn fed to a transmission signal mixer 12 for conversion to a carrier frequency, and then fed to a module, which includes a power amplifier 21, a transmission signal filter 22 and an isolator 23, to be transmitted via the antenna 1.